

Re-run



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/868,605

DATE: 05/08/2002
TIME: 11:02:33

Input Set : N:\paola\US09868605.raw
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1 <110> APPLICANT: ML Laboratories PLC
2 <120> TITLE OF INVENTION: Immunosuppression
3 <130> FILE REFERENCE: P15700WO
4 <140> CURRENT APPLICATION NUMBER: US/09/868,605
5 <141> CURRENT FILING DATE: 2001-06-19
6 <150> PRIOR APPLICATION NUMBER: 9827921.9
7 <151> PRIOR FILING DATE: 1998-12-19
8 <150> PRIOR APPLICATION NUMBER: 9925015.1
9 <151> PRIOR FILING DATE: 1999-10-23
10 <160> NUMBER OF SEQ ID NOS: 39
11 <170> SOFTWARE: PatentIn Ver. 2.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 288
15 <212> TYPE: PRT
16 <213> ORGANISM: Homo sapiens
17 <400> SEQUENCE: 1
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21 20 25 30
22 Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
23 35 40 45
24 Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
25 50 55 60
26 Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
27 65 70 75 80
28 Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
29 85 90 95
30 Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
31 100 105 110
32 Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
33 115 120 125
34 Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
35 130 135 140
36 Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
37 145 150 155 160
38 Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
39 165 170 175
40 Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
41 180 185 190
42 Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
43 195 200 205
44 Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg

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45          210          215          220
46  Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
47          225          230          235          240
48  Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
49          245          250          255
50  Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
51          260          265          270
52  Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
53          275          280          285

55 <210> SEQ ID NO: 2
56 <211> LENGTH: 972
57 <212> TYPE: DNA
58 <213> ORGANISM: Homo sapiens
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62  aaccaaagcc tgagttagt agtagtattt tggcaggacc agaaaaactt ggttctgaat 180
63  gaggtatact taggcaaaaga gaaatttgc acgtgttcatt ccaagtataat gggccgcaca 240
64  agttttgatt cggacagttt gaccctgaga cttcacaatc ttcatgatcaa ggacaaggc 300
65  ttgtatcaat gtatcatcca tcacaaaaag cccacaggaa tgattcgat ccaccatgt 360
66  aattctgaac tgcgtgtct tgcttaactt acgtcaacactg aaatagtacc aatttctaat 420
67  ataacagaaa atgtgtacat aaatttgc tgcgtatcta tacacggta cccagaacct 480
68  aagaagatga gtgtttgt aagaaccaag aattcaacta tcgagttatga tggattatgt 540
69  cagaaatctc aagataatgt cacagaaactg tacgacgtt ccatcagctt gtctgttca 600
70  ttccctgtatgc ttacgagcaaa tatgaccatc ttctgtattc tggaaactga caagacgcgg 660
71  ctttatctt caccttctc tataagacgtt gaggaccctc agcctcccc agaccacatt 720
72  ctttggatta cagctgtact tccaaacagt attatatgtg tgcgtgtttt ctgtctaatt 780
73  ctatggaaat ggaagaagaa gaagcggctt cgcaactctt ataaatgtgg aaccaacaca 840
74  atggagaggg aagagatgtg acagaccaag aaaagagaaa aatccatat acctgaaaga 900
75  tctgtatgaag cccagcgtgt tttaaaagt tcgaagacat cttcatgcga caaaagtgtat 960
76  acatgtttt aa                                         972

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80 <212> TYPE: PRT
81 <213> ORGANISM: Homo sapiens
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86          20          25          30
87  Pro Cys Gln Phe Ala Asn Ser Gln Asn Gln Ser Leu Ser Glu Leu Val
88          35          40          45
89  Val Phe Trp Gln Asp Gln Glu Asn Leu Val Leu Asn Glu Val Tyr Leu
90          50          55          60
91  Gly Lys Glu Lys Phe Asp Ser Val His Ser Lys Tyr Met Gly Arg Thr
92          65          70          75          80
93  Ser Phe Asp Ser Asp Ser Trp Thr Leu Arg Leu His Asn Leu Gln Ile
94          85          90          95
95  Lys Asp Lys Gly Leu Tyr Gln Cys Ile Ile His His Lys Lys Pro Thr

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96 100 105 110
 97 Gly Met Ile Arg Ile His Gln Met Asn Ser Glu Leu Ser Val Leu Ala
 98 115 120 125
 99 Asn Phe Ser Gln Pro Glu Ile Val Pro Ile Ser Asn Ile Thr Glu Asn
 100 130 135 140
 101 Val Tyr Ile Asn Leu Thr Cys Ser Ser Ile His Gly Tyr Pro Glu Pro
 102 145 150 155 160
 103 Lys Lys Met Ser Val Leu Leu Arg Thr Lys Asn Ser Thr Ile Glu Tyr
 104 165 170 175
 105 Asp Gly Ile Met Gln Lys Ser Gln Asp Asn Val Thr Glu Leu Tyr Asp
 106 180 185 190
 107 Val Ser Ile Ser Leu Ser Val Ser Phe Pro Asp Val Thr Ser Asn Met
 108 195 200 205
 109 Thr Ile Phe Cys Ile Leu Glu Thr Asp Lys Thr Arg Leu Leu Ser Ser
 110 210 215 220
 111 Pro Phe Ser Ile Glu Leu Glu Asp Pro Gln Pro Pro Pro Asp His Ile
 112 225 230 235 240
 113 Pro Trp Ile Thr Ala Val Leu Pro Thr Val Ile Ile Cys Val Met Val
 114 245 250 255
 115 Phe Cys Leu Ile Leu Trp Lys Trp Lys Lys Lys Arg Pro Arg Asn
 116 260 265 270
 117 Ser Tyr Lys Cys Gly Thr Asn Thr Met Glu Arg Glu Glu Ser Glu Gln
 118 275 280 285
 119 Thr Lys Lys Arg Glu Lys Ile His Ile Pro Glu Arg Ser Asp Glu Ala
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 121 Gln Arg Val Phe Lys Ser Ser Lys Thr Ser Ser Cys Asp Lys Ser Asp
 122 305 310 315 320
 123 Thr Cys Phe
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 126 <211> LENGTH: 834
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Homo sapiens
 129 <400> SEQUENCE: 4
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 131 gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttctttg 120
 132 tgccagccag gacagaaact ggtgagtgc tgcacagagt tcactgaaac ggaatgcctt 180
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 135 accatctgca cctgtgaaga aggctggcac tgtacagatg aggcctgtga gagctgtgtc 360
 136 ctgcaccgct catgctcgcc cggctttggg gtcaagcaga ttgttacagg ggtttctgtat 420
 137 accatctgcg agccctgccc agtcggcttc ttctccaatg tgtcatctgc tttcgaaaaa 480
 138 tgtcaccctt ggacaagctg tgagacccaa gacctggttg tgcaacaggc aggacacaaac 540
 139 aagactgtatg ttgtctgtgg tccccaggat cggctggagag ccctgggtgt gatccccatc 600
 140 atcttcggga tcctgtttgc catcctcttgc gtgctggctt ttatcaaaaa ggtggccaag 660
 141 aagccaaacca ataaggcccc ccaccccaag caggaacccc aggagatcaa ttttcccgac 720
 142 gatttcctg gctccaacac tgctgctcca gtgcaggaga ctttacatgg atgccaaccg 780
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 145 <210> SEQ ID NO: 5
 146 <211> LENGTH: 277

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147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
149 <400> SEQUENCE: 5
150 Met Val Arg Leu Pro Leu Gln Cys Val Leu Trp Gly Cys Leu Leu Thr
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152 Ala Val His Pro Glu Pro Pro Thr Ala Cys Arg Glu Lys Gln Tyr Leu
153 20 25 30
154 Ile Asn Ser Gln Cys Cys Ser Leu Cys Gln Pro Gly Gln Lys Leu Val
155 35 40 45
156 Ser Asp Cys Thr Glu Phe Thr Glu Thr Glu Cys Leu Pro Cys Gly Glu
157 50 55 60
158 Ser Glu Phe Leu Asp Thr Trp Asn Arg Glu Thr His Cys His Gln His
159 65 70 75 80
160 Lys Tyr Cys Asp Pro Asn Leu Gly Leu Arg Val Gln Gln Lys Gly Thr
161 85 90 95
162 Ser Glu Thr Asp Thr Ile Cys Thr Cys Glu Glu Gly Trp His Cys Thr
163 100 105 110
164 Ser Glu Ala Cys Glu Ser Cys Val Leu His Arg Ser Cys Ser Pro Gly
165 115 120 125
166 Phe Gly Val Lys Gln Ile Ala Thr Gly Val Ser Asp Thr Ile Cys Glu
167 130 135 140
168 Pro Cys Pro Val Gly Phe Phe Ser Asn Val Ser Ser Ala Phe Glu Lys
169 145 150 155 160
170 Cys His Pro Trp Thr Ser Cys Glu Thr Lys Asp Leu Val Val Gln Gln
171 165 170 175
172 Ala Gly Thr Asn Lys Thr Asp Val Val Cys Gly Pro Gln Asp Arg Leu
173 180 185 190
174 Arg Ala Leu Val Val Ile Pro Ile Ile Phe Gly Ile Leu Phe Ala Ile
175 195 200 205
176 Leu Leu Val Leu Val Phe Ile Lys Lys Val Ala Lys Lys Pro Thr Asn
177 210 215 220
178 Lys Ala Pro His Pro Lys Gln Glu Pro Gln Glu Ile Asn Phe Pro Asp
179 225 230 235 240
180 Asp Leu Pro Gly Ser Asn Thr Ala Ala Pro Val Gln Glu Thr Leu His
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188 <211> LENGTH: 735
189 <212> TYPE: PRT
190 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 6
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195 20 25 30
196 Ala Gln Ile Gly Asp Ser Val Ser Leu Thr Cys Ser Thr Thr Gly Cys

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200	Gly Lys Val Thr Asn Glu Gly Thr Thr Ser Thr Leu Thr Met Asn Pro			
201	65	70	75	80
202	Val Ser Phe Gly Asn Glu His Ser Tyr Leu Cys Thr Ala Thr Cys Glu			
203	85	90	95	
204	Ser Arg Lys Leu Glu Lys Gly Ile Gln Val Glu Ile Tyr Ser Phe Pro			
205	100	105	110	
206	Lys Asp Pro Glu Ile His Leu Ser Gly Pro Leu Glu Ala Gly Lys Pro			
207	115	120	125	
208	Ile Thr Val Lys Cys Ser Val Ala Asp Val Tyr Pro Phe Asp Arg Leu			
209	130	135	140	
210	Glu Ile Asp Leu Leu Lys Gly Asp His Leu Met Lys Ser Gln Glu Phe			
211	145	150	155	160
212	Leu Glu Asp Ala Asp Arg Lys Ser Leu Glu Thr Lys Ser Leu Glu Val			
213	165	170	175	
214	Thr Phe Thr Pro Val Ile Glu Asp Ile Gly Lys Val Leu Val Cys Arg			
215	180	185	190	
216	Ala Lys Leu His Ile Asp Glu Met Asp Ser Val Pro Thr Val Arg Gln			
217	195	200	205	
218	Ala Val Lys Glu Leu Gln Val Tyr Ile Ser Pro Lys Asn Thr Val Ile			
219	210	215	220	
220	Ser Val Asn Pro Ser Thr Lys Leu Gln Glu Gly Ser Val Thr Met			
221	225	230	235	240
222	Thr Cys Ser Ser Glu Gly Leu Pro Ala Pro Glu Ile Phe Trp Ser Lys			
223	245	250	255	
224	Lys Leu Asp Asn Gly Asn Leu Gln His Leu Ser Gly Asn Ala Thr Leu			
225	260	265	270	
226	Thr Leu Ile Ala Met Arg Met Glu Asp Ser Gly Ile Tyr Val Cys Glu			
227	275	280	285	
228	Gly Val Asn Leu Ile Gly Lys Asn Arg Lys Glu Val Glu Leu Ile Val			
229	290	295	300	
230	Gln Glu Lys Pro Phe Thr Val Glu Ile Ser Pro Gly Pro Arg Ile Ala			
231	305	310	315	320
232	Ala Gln Ile Gly Asp Ser Val Met Leu Thr Cys Ser Val Met Gly Cys			
233	325	330	335	
234	Glu Ser Pro Ser Phe Ser Trp Arg Thr Gln Ile Asp Ser Pro Leu Ser			
235	340	345	350	
236	Gly Lys Val Arg Ser Glu Gly Thr Asn Ser Thr Leu Thr Leu Ser Pro			
237	355	360	365	
238	Val Ser Phe Glu Asn Glu His Ser Tyr Leu Cys Thr Val Thr Cys Gly			
239	370	375	380	
240	His Lys Lys Leu Glu Lys Gly Ile Gln Gly Glu Leu Tyr Ser Phe Pro			
241	385	390	395	400
242	Arg Asp Pro Glu Ile Glu Met Ser Gly Gly Leu Val Asn Gly Ser Ser			
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244	Cys Thr Val Ser Cys Lys Val Pro Ser Val Tyr Pro Leu Asp Arg Leu			
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VERIFICATION SUMMARY

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